## **IN THE CLAIMS**:

Please ADD new claims 11 and 12 as follows.

- 1. (Original) A mold apparatus characterized by comprising:
- (a) a first mold unit;
- (b) a second mold unit;
- (c) a sprue bush disposed in one of the first and second mold units and having a sprue for charging a molding material into a cavity space;
- (d) a machining member disposed in the other of the first and second mold units in such a manner that the machining member can be advanced and retracted, the machining member performing a predetermined machining for a prototype of a molded product when the machining member is advanced; and
- (e) a bush disposed radially outward of the machining member to surround the machining member and having a flow passage which is formed in a front end portion thereof and through which a temperature control medium flows.
- 2. (Original) A mold apparatus according to claim 1, wherein an annular flow passage through which a temperature control medium flows is formed in a front end portion of the sprue bush.
- 3. (Original) A mold apparatus according to claim 2, wherein the radial dimension of the flow passage of the sprue bush is greater than an inner diameter of a

supply passage for supplying the temperature control medium to the flow passage of the sprue bush.

- 4. (Original) A mold apparatus according to claim 1, wherein the flow passage formed in the front end portion of the bush is an annular flow passage.
  - 5. (Original) A mold apparatus according to claim 1, further comprising:
- (a) a support member disposed between the machining member and the bush, wherein
- (b) the support member extends rearward from a position near the flow passage formed in the front end portion of the bush.
- 6. (Original) A mold apparatus according to claim 5, wherein the supply passage for supplying the temperature control medium to the flow passage of the bush is formed along the support member.
- 7. (Original) A mold apparatus according to claim 5, wherein a discharge passage for discharging a lubricant used for lubricating the support member is formed in the machining member.
- 8. (Original) A molded product molded by use of a mold apparatus comprising a first mold unit; a second mold unit; a sprue bush disposed in one of the first and second

mold units and having a sprue; a machining member disposed in the other of the first and second mold units in such a manner that the machining member can be advanced and retracted; and a bush disposed radially outward of the machining member to surround the machining member and having a flow passage which is formed in a front end portion thereof and through which a temperature control medium flows, the product being characterized by being molded through

- (a) charging a molding material into a cavity space via the sprue;
- (b) cooling the molding material so as to form a prototype of the molded product; and
- (c) advancing the machining member so as to perform a predetermined machining on the prototype of the molded product.
- 9. (Original) A method of molding a product in a mold apparatus comprising a first mold unit; a second mold unit; a sprue bush disposed in one of the first and second mold units and having a sprue; a machining member disposed in the other of the first and second mold units in such a manner that the machining member can be advanced and retracted; and a bush disposed radially outward of the machining member to surround the machining member and having a flow passage which his formed in a front end portion thereof and through which a temperature control medium flows, the method being characterized by comprising the steps of:
  - (a) charging a molding material into the cavity space via the sprue;

- (b) cooling the molding material so as to form a prototype of the molded product; and
- (c) advancing the machining member so as to perform a predetermined machining on the prototype of the molded product.
- 10. (Previously Presented) A molding machine equipped with the mold apparatus as described in claim 1.
- 11. (New) A bush for a disc-molding mold comprising a first mold unit; a second mold unit; a sprue bush disposed in one of the first and second mold units and having a sprue for charging the molding material into the cavity space; and machining member disposed in the other of the first and second mold units in such a manner that the machining member can be advanced and retracted; the machining member performing a predetermined machining for a prototype of a molded product when the machining member is advanced wherein the bush, having a cylindrical shape, is disposed radially outward of the machining member to surround the machining member; and a flow passage which is formed in a front end portion thereof and through which a temperature control medium for cooling the front end portion flows.
- 12. (New) A bush according to claim 11, wherein the flow passage through which a temperature control medium flows is an annular flow passage.